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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,
NTS EVENT 'EDAM', 24 APRIL 1975

J. R. Woolson, et al

Teledyne Geotech

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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT
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September 1975

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SDCS Event Report No. 20

NTS Event "EDAM", 24 April 1975

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	Origin Time	Latitude	Longitude	m_b	M_s
NORSAR	N/A	N/A	N/A	N/A	N/A
LASA	N/A	N/A	N/A	N/A	N/A
PDE	14:10:00	37.1N	116.1W	4.6	N/A
Hagfors Array, Sweden	N/A	N/A	N/A	N/A	N/A

Using SDCS stations and LASA, the epicenter location becomes

SDCS & Arrays	14:10:00	37.0N	116.4W	4.8	3.6
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All SDCS stations were operational for this event.

Short-period signals associated with this event were recorded at RK-CN, CPSO, HN-ME, and LASA. The signal was not observed at FN-WV. The apparent signal at WH2YK was not used in the hypocenter and magnitude calculations due to timing uncertainties. NORSAR did not report this event.

Analysis of long-period records yielded a definite signal only at WH2YK. There were weak indications at CPSO and FN-WV. The long-period array beams from NORSAR were not recoverable.

Details of the program used to obtain beam vertical, radial and transverse long-period data at LASA, ALPA and NORSAR are in the process of being reviewed. Vertical beams are probably valid while horizontal beams are questionable.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response) with the exception of LASA and NORSAR short-period plots. LASA SP scaling factors are millimicrons per inch. Scaling factors are not reported for NORSAR short-period.

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES		ELEVATION METERS	INSTRUMENTATION	
		DEG	MN SECS		SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65 14	00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinnville, Tennessee	35 35	41.4 N 085 34 13.5 W	574	0480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38 32	58.0 N 079 30 47.0 W	910	KS36000	KS36000
LASA	Billings, Montana	46 41	19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46 09	43.0 N 067 59 09.0 W	213	18300	SL210 V SL220 H
NORSAR	Kjeller, Norway	60 49	25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H
RK-ON	Red Lake, Ontario	50 50	20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
WH2YK	White Horse, Yukon	60 41	41.0 N 134 58 02.0 W	853	18300	SL210 V SL220 H

HYPOCENTER DETERMINATION

INPUT FOR EVENT 24 APR 75
14:10:00.0 37.000N 116.000W 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CALC	REST		
LAO	14 12 54.9	-0.0	0.1	12.3	34.7
RF-ON	14 14 47.0	-0.0	-0.2	21.3	42.3
CPO	14 15 22.2	-0.0	-0.0	24.8	83.9
WH2YK*	14 16 10.2	25.1 *	32.5 *	26.5	339.4
HN-ME	14 17 08.7	-0.0	0.1	36.8	60.1

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
14:10:13.6	37.322N	115.368W	52. CALC	0.0	14	4
14:09:59.5	36.977N	116.368W	0. REST	0.2	3	4

CALC
0 . 0
0 . 0
0 . 0 . 1
0 . 0 . 0
0 . 0 . 0
0 . 0

REST
0 . 0
0 . 0
0 . 0 . 1
0 . 0 . 0
0 . 0 . 0
0 . 0

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 1.95
MAJOR 425.1KM. MINOR 69.3KM. AZ= 81 AREA= 92519 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 24 APR 75
14:10:00.0 37.000N 116.000W OKM.

STA.	PHASE	ARRIVAL		INST	PER	A/T	MAGNITUDE		DIP	DIST
		TIME					MB	MS		
LAO	EP	14 12 54.9		SPZ	0.7	??				
RK-OW	EP	14 14 47.0		SPZ	1.0	105.	4.85			21.3
CPO	EP	14 15 22.2		SPZ	1.1	51.	4.87			24.2
WH2YK*	EP	14 16 10.2		SPZ	1.0	6.	3.93			26.5
WH2YK	LQ	14 25 21.0		LPT	20.0	7.				
WH2YK	LR	14 27 22.0		LPZ	18.0	11.		3.58		26.5
HN-ME	EP	14 17 08.7		SPZ	1.0	23.	4.58			36.8

ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA	LPHAG	LPSPV	LPSTA
14:10:13.6	37.322N	115.368W	52. CALC	4.72	0.07	3	3.58*****		1
14:09:59.5	36.977N	116.368W	0. PEST	4.77	0.16	3	3.58*****		1

RK-ON 24 APRIL 75

SPZ

50.15 MP

14:14:47.0

SPR

43.31 MP

57

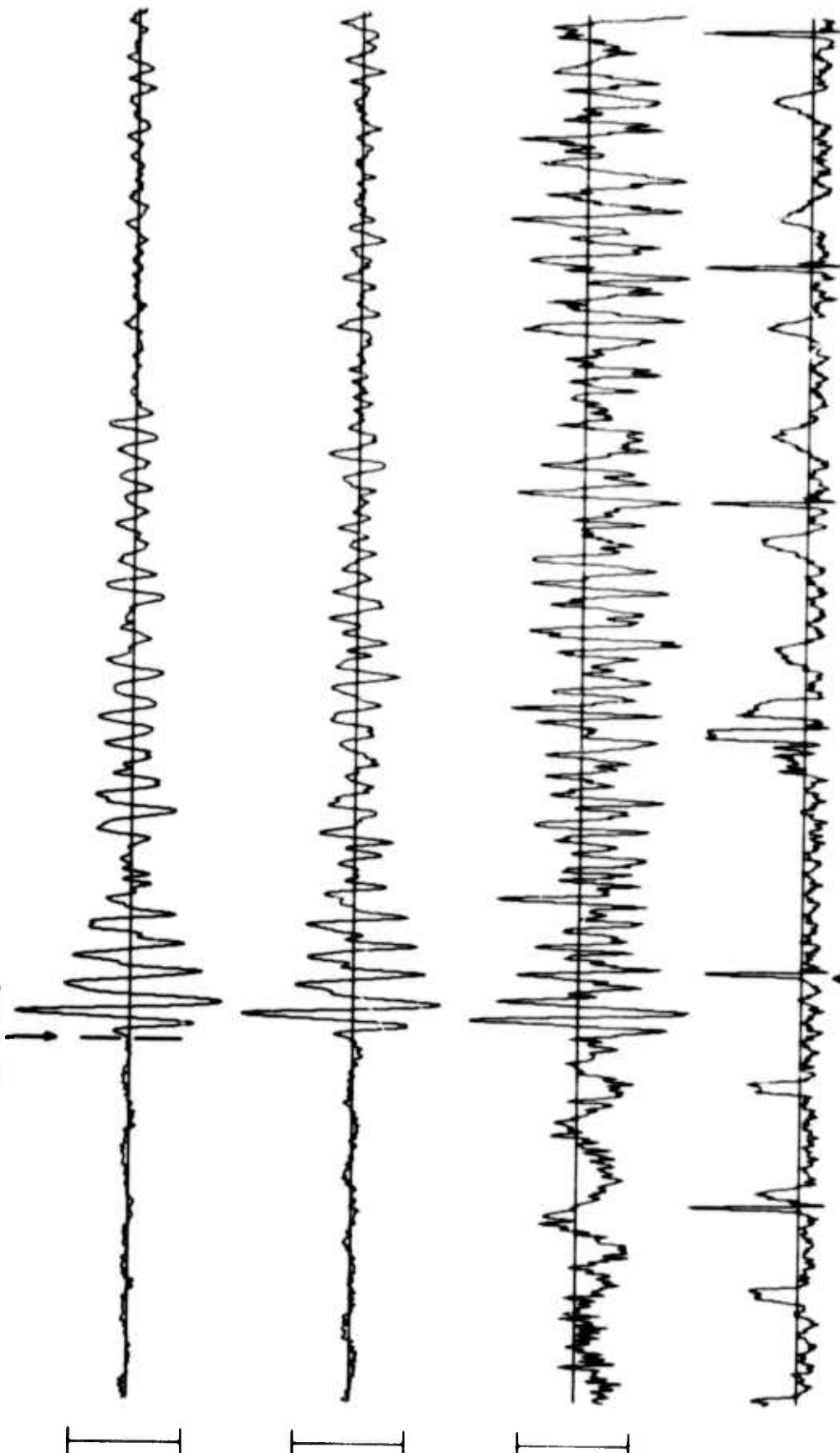
SPT

8.73 MP

TIME

10 SEC

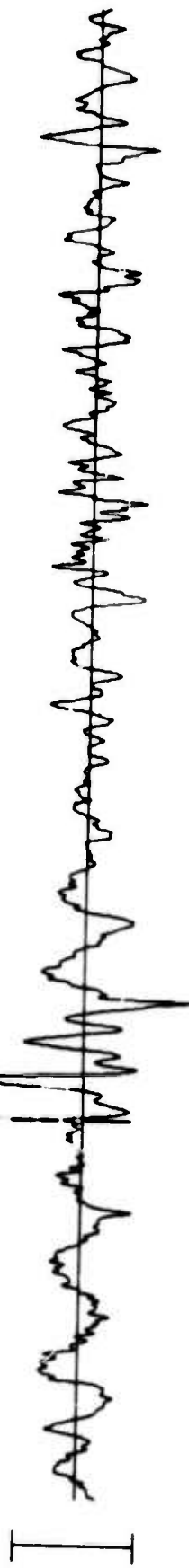
14:14:50



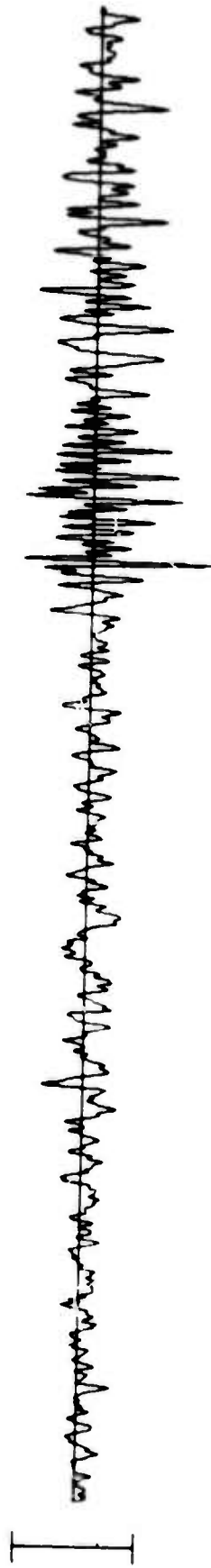
CPSO 24 APRIL 75

**SPZ
34:22 M#**

14:15:22.2

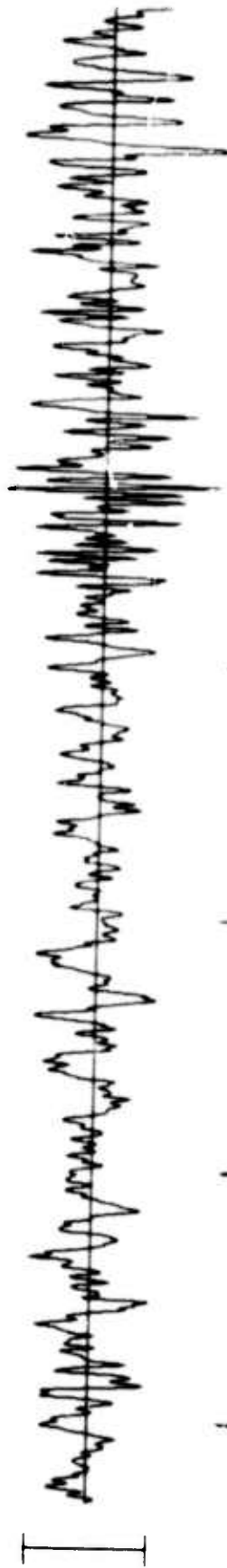


**SPR
22:10 M#**



6A

**SPT
19:02 M#**



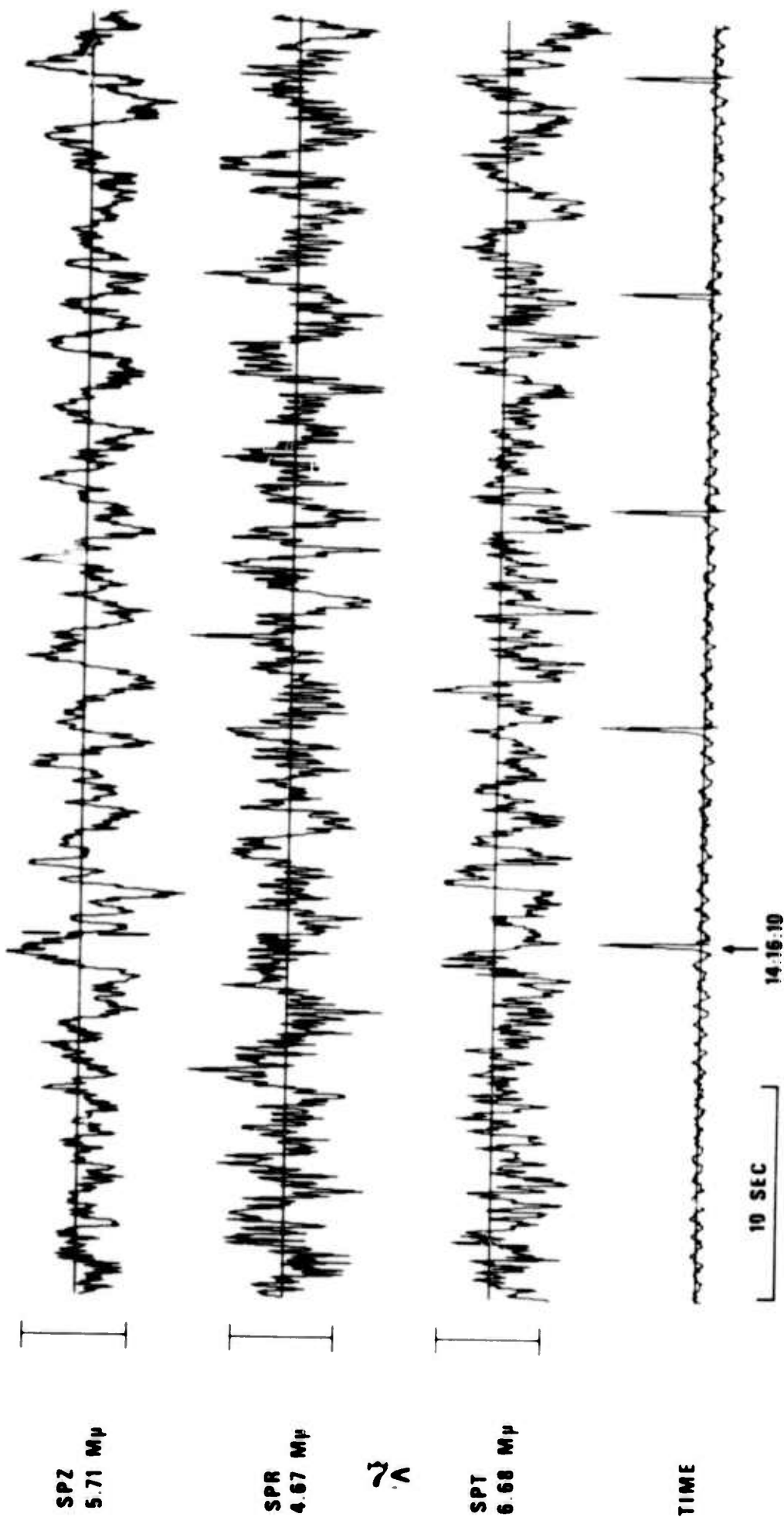
TIME

10 SEC

14:15:30

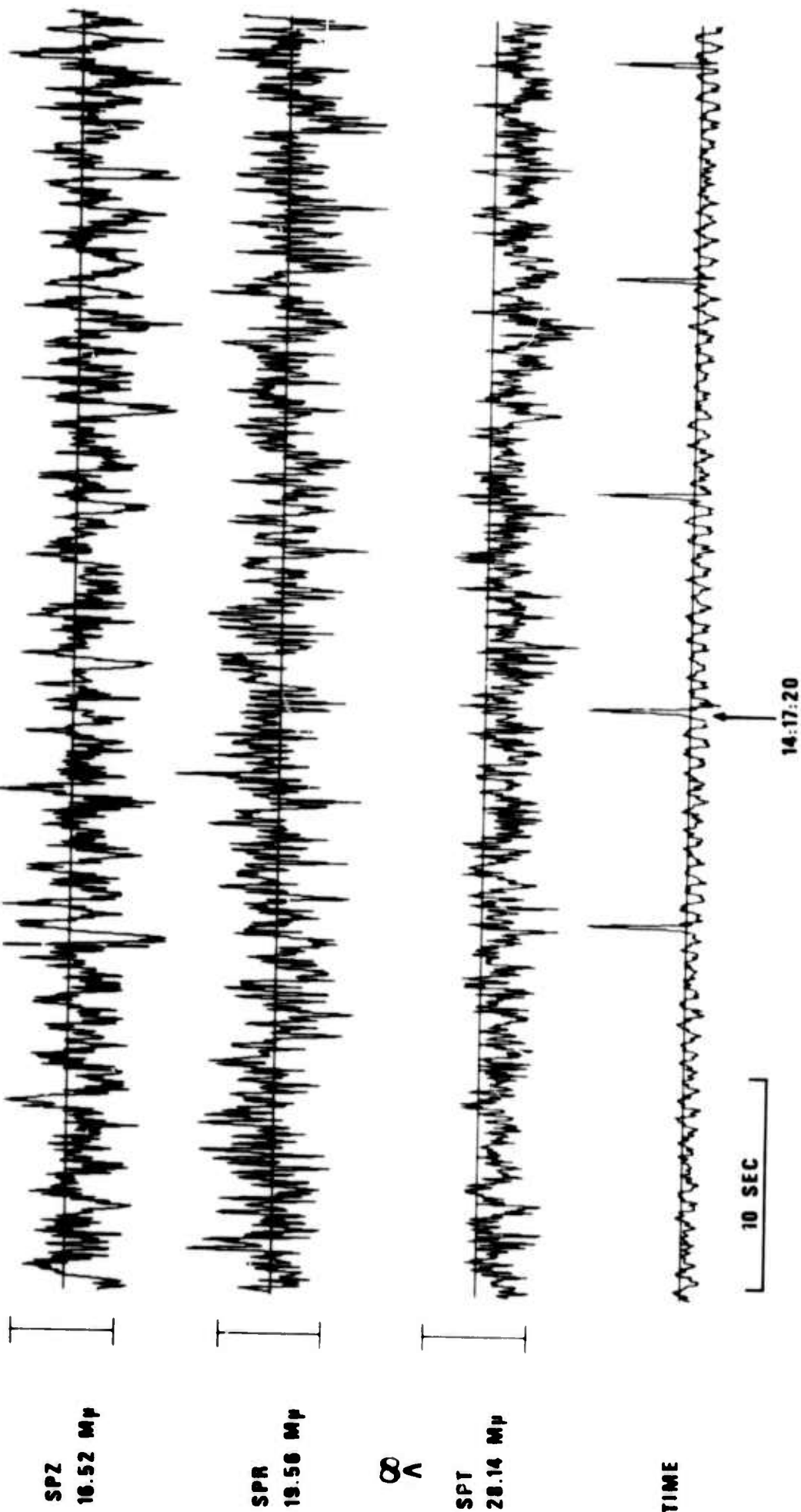


WH2YK 24 APR 75



(-30 SECOND TIME CORRECTION)

HN-ME 24 APRIL 75



FN-WV 24 APRIL 75

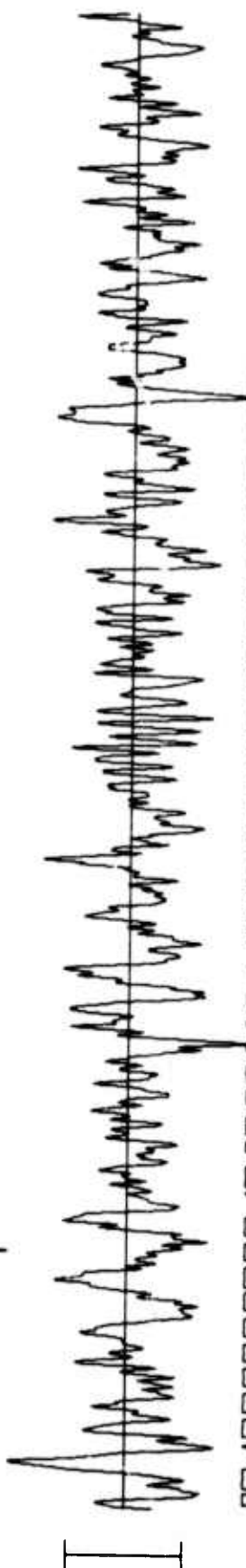
SPZ
6.78 MP



SPR
17.85 MP



SPT
6.50 MP



TIME



10 SEC

14:16:00

LASA (SHORT-PERIOD HIGH-GAIN INSTRUMENTS) 24 APR 75

14:12:54.8

A0-10

D3-10

D4-10

Q1

D1-10

02-10

14:12:10

10 SEC

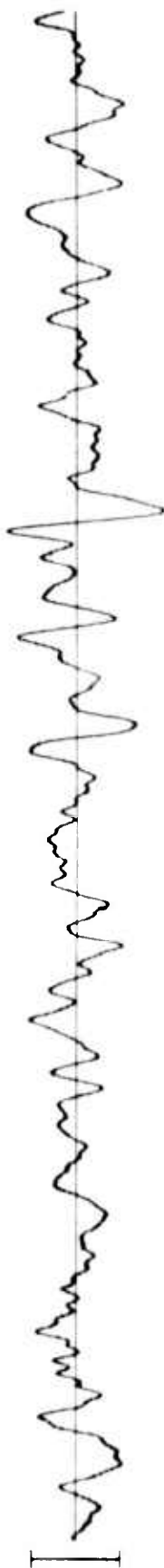
(NO AMPLITUDE DETERMINATIONS MADE DUE TO UNRESOLVED SCALING PROBLEMS)

RK-ON 24 APR 75

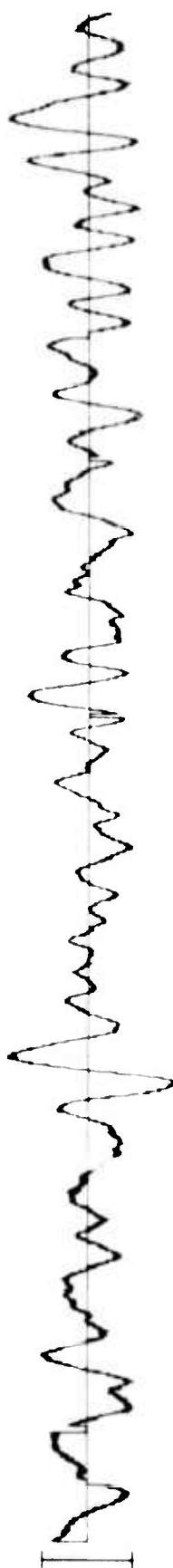
LPZ
1335.49 MP



LPR
298.50 MP



LPT
190.95 MP



TIME



2 MIN

10:20:00

CPSO 24 APRIL 75

LPT
112.23 MP



LPR
1133.73 MP



LPT
306.12 MP



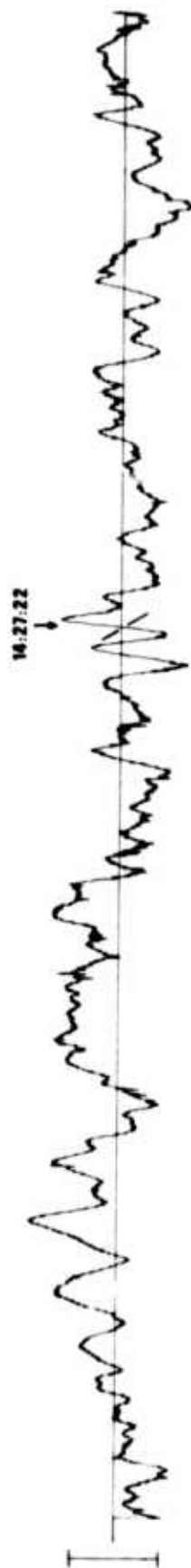
12<

TIME

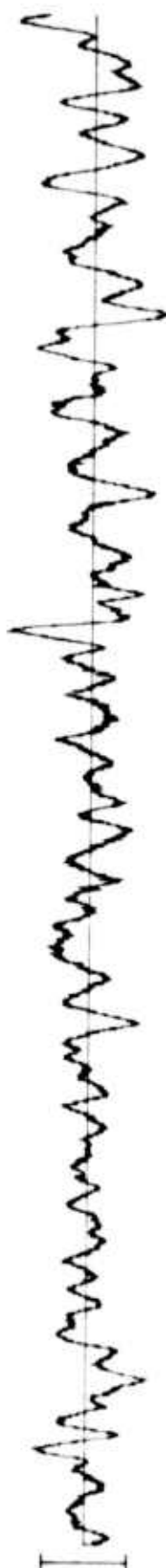


WH2YK 24 APR 75

LPZ
156.04 MP



LPR
127.68 MP

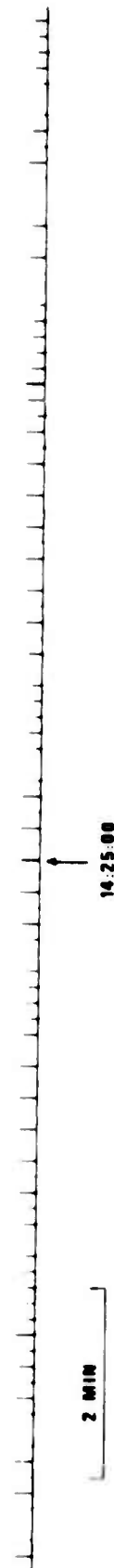


13

LPT
141.51 MP



TIME



(APPROXIMATE 30 SECOND TIME CORRECTION)

HM-ME 24 APR 75

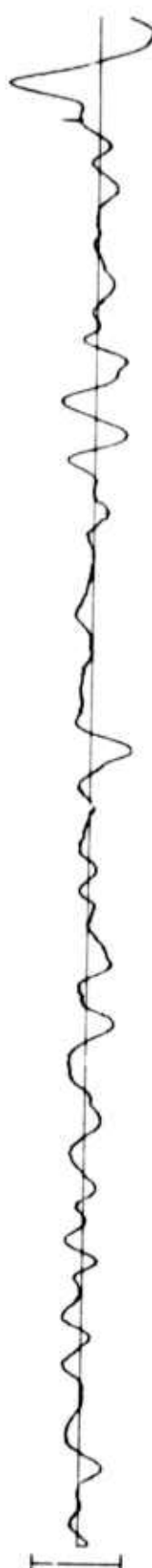
LPT
032.06 MP



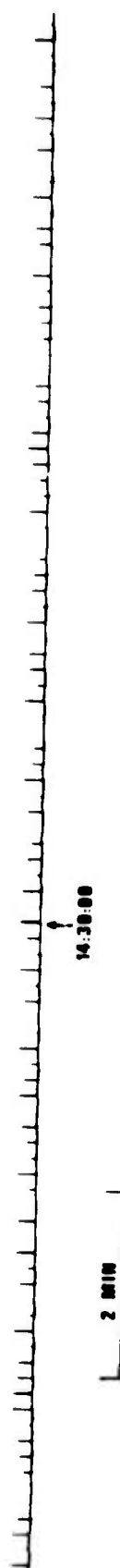
LPT
2055.02 MP



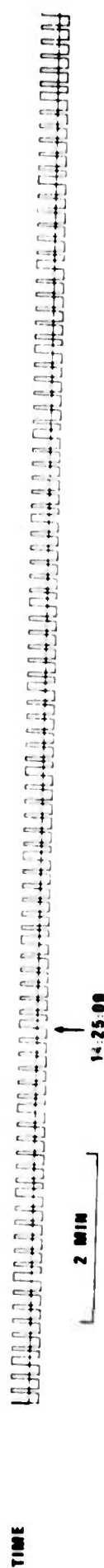
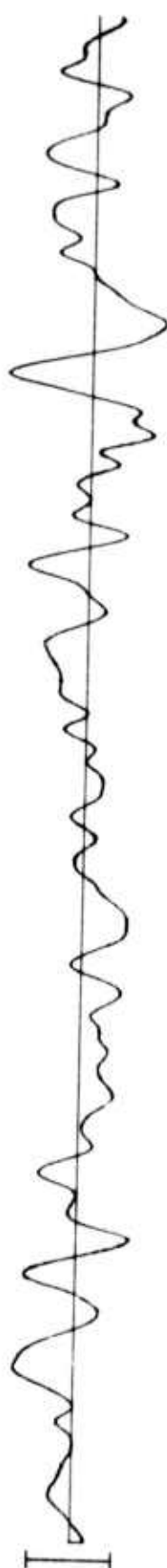
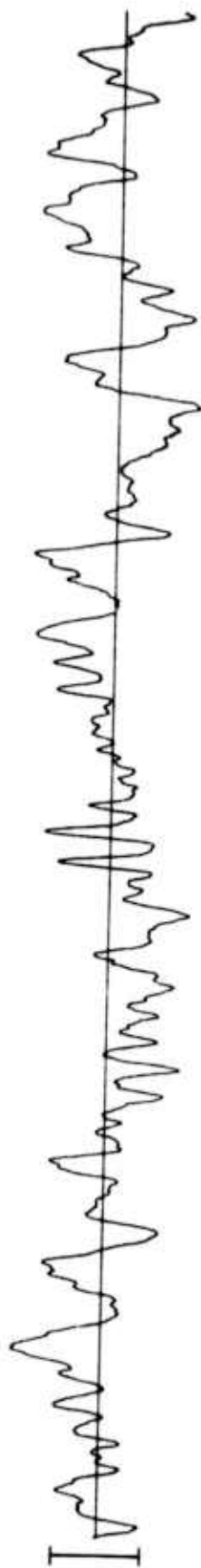
LPT
1420.00 MP



TIME

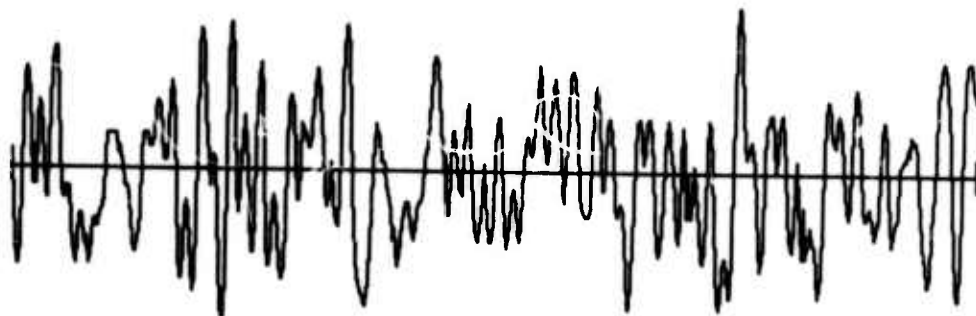


FN-WV 24 APR 75



LASA C4 SUBARRAY 24 APRIL 75

LPZ



LPN



LPE



2 MIN

(NO AMPLITUDE DETERMINATIONS MADE DUE TO UNRESOLVED SCALING PROBLEMS)

LASA LONG-PERIOD BEAMS 24 APRIL 75

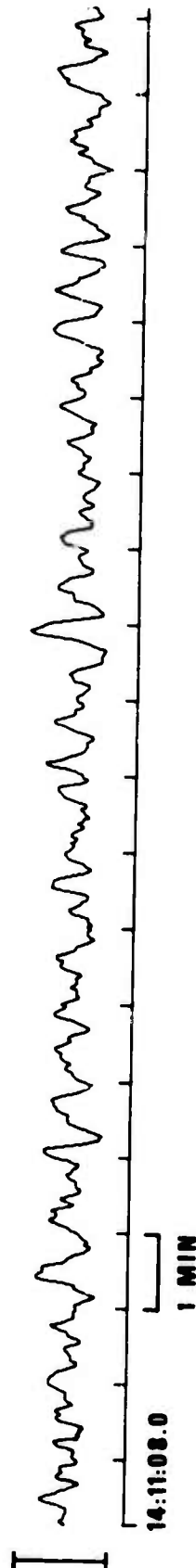
LP VERTICAL
93.87 Mμ



LP RADIAL
150.04 Mμ



LP TRANSVERSE
189.83 Mμ



ALPA LONG - PERIOD BEAMS 24 APRIL 75

LP VERTICAL

02.550 MP

I



LP RADIAL

01.002 MP

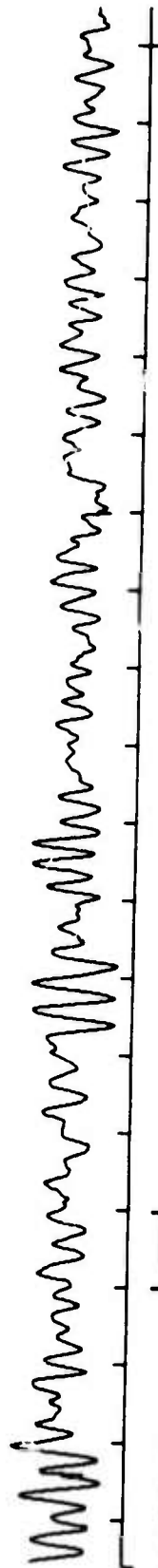
I



LP TRANSVERSE

40.922 MP

I



100

14:22:23.0

1 MIN